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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/534,961	05/16/2005	Masahiko Kadokura	10873.1601USWO	1695		
	7590 01/05/201 U <b>MANN, MUELLER</b>	EXAMINER				
P.O. BOX 2902	2-0902	CATTUNGAL, SANJAY				
MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER		
			3768			
			MAIL DATE	DELIVERY MODE		
			01/05/2010	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.		Applicant(s)					
Office Action Summary			10/534,961		KADOKURA, MASAHIKO				
			Examiner		Art Unit				
			SANJAY CA		3768				
Period fo	The MAILING DATE of this commun or Reply	nication appe	ears on the d	cover sheet with the o	correspondence a	ddress			
WHIC - Exter after - If NC - Failu Any r	CRTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE IN INSIGN SIX (6) MONTHS from the mailing date of this compared for reply is specified above, the maximum is the to reply within the set or extended period for reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DA's of 37 CFR 1.136 munication. tatutory period will y will, by statute, c	TE OF THIS  6(a). In no event  Il apply and will e  cause the applica	S COMMUNICATIO , however, may a reply be tile expire SIX (6) MONTHS from ation to become ABANDONE	N. mely filed the mailing date of this of the (35 U.S.C. § 133).				
Status									
1) 又	Responsive to communication(s) file	ed on <i>18 No</i>	vember 200	)9					
· · · · · · · · · · · · · · · · · · ·	Responsive to communication(s) filed on <u>18 November 2009</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.								
3)		<i>7</i> —			osecution as to th	e merits is			
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠	Claim(s) <u>1-6</u> is/are pending in the a	oplication.							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	□ Claim(s) is/are allowed.								
	o)∐ Claim(s) is/are allowed. Claim(s) <u>1-6</u> is/are rejected.								
·	Claim(s) is/are objected to.								
•	Claim(s) are subject to restri	ction and/or	election rec	uirement					
		otion ana, or	Olddiidii i id	all official.					
Applicati	on Papers								
•	The specification is objected to by th								
10)🛛	10)⊠ The drawing(s) filed on <u>16 May 2005</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.								
	Applicant may not request that any object	ection to the di	rawing(s) be	held in abeyance. Se	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
2)  Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date			Interview Summary Paper No(s)/Mail D  Notice of Informal F  Other:	ate				

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## **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments filed 10/20/2009 have been fully considered but are moot in view of new grounds of rejection.

## Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 3. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,255,684 to Rello in view of U.S. Patent No. 6,840,938 to Morley et al.
- 4. Regarding Claims 1 and 6, Rello teaches an ultrasonic probe, comprising an inserting portion to be inserted into a body cavity (Fig. 2); and a grip portion held by an operator outside of the body cavity (Fig. 2), wherein the inserting portion includes a transducer unit for transmitting and receiving an ultrasonic wave (Fig. 2 elements 12), a rotation axis provided in the transducer unit, and a swing mechanism for swinging the transducer unit around the rotation axis as a center axis (Abstract and Fig. 2), and the grip portion includes a motor for driving the swing mechanism (Fig. 2 element 22), the swing mechanism includes a shaft connected to the motor (Fig. 2 element 22b), a first

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pulley directly connected an end portion of the shaft different from an end potion connected to the motor (Fig. 2 element 36), a second pulley coaxially provided at the rotation axis (Fig. 2 element 40), and a belt connecting the first pulley and the second pulley (fig. 2 element 40), and rotational movement of the motor is transmitted to the transducer unit via the shaft, the first pulley, the belt, and the second pulley (Abstract, Figs. 2 and 4).

- 5. Taylor does not expressly teach the use of a wire to engage the pulleys.
- 6. Morley teaches the use of cables to engage the pulleys (Fig. 4b).
- 7. It would have been obvious to one of ordinary skill in the art at the time of invention to modify Taylor with a setup to use cables to engage the pulley as taught by Morley, since the use of cables/wires/belts with pulleys is well known in the art as they are obvious variants of each other.
- 8. Regarding Claim 2, Morley teaches using pulley of the same diameter (Fig. b element 94).
- 9. Regarding Claims 3 and 4, Morley teaches using pulleys to change the direction of motion (fig. 4b)
- 10. Regarding Claim 5, Morley teaches use of a third pulley to change the direction in which the wire is moved perpendicularly (Fig. 4b).
- 11. Regarding Claim 6, Morley teaches a groove on the peripheral surface of the first pulley and the second pulley (Fig. 4b element 94).

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## Conclusion

12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to SANJAY CATTUNGAL whose telephone number is

(571)272-1306. The examiner can normally be reached on Monday-Friday 9-5.

13. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Long Le can be reached on (571) 272-0823. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

14. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SANJAY CATTUNGAL/

Examiner, Art Unit 3768

/Long V Le/

Supervisory Patent Examiner, Art Unit 3768